

FORM PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			ATTY DKT NO. 7340-012		SERIAL NO. 10/798,088	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT					APPLICANT Higgins			
					FILING DATE March 11, 2004		GROUP 1793	
U.S. PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CL.	SUBCL.	FILING DATE IF APPROP.	
/EMJ/	A	3,105,540	10/1963	Hardgrove	431	9		
↓	B	3,528,797	09/1970	Funk, et al.	71	39		
	C	3,565,575	02/1971	Warshaww, et al.	23	2		
	D	3,773,897	11/1973	Fields, et al.	423	235		
	E	3,847,564	11/1974	Marion et al.	48	95		
	F	3,860,384	01/1975	Vulliet et al.	431	4		
	G	3,900,554	08/1975	Lyon	423	235		
	H	3,970,739	07/1976	Shiraishi et al.	423	23S		
/EMJ/	I	4,021,188	05/1977	Yamagishi et al.	431	158		
	J	4,029,752	06/1997	Cahn	423	563		
FOREIGN PATENT DOCUMENTS								
		DOCUMENT NO.	DATE	COUNTRY	CL.	SUBCL.	TRANSLATION	
							YES	NO
OTHER DOCUMENTS (Incl. Author, Title, Date, Pertinent pages, etc.)								
EXAMINER /Edward M. Johnson/ (01/23/2009)					DATE CONSIDERED			
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/EMJ/	K	4,039,446	08/1977	Ban et al.	210	688		
	L	4,080,423	03/1978	Smith et al.	423	210		
	M	4,089,639	05/1978	Reed et al.	431	211		
	N	4,119,702	10/1978	Azuhata et al.	423	235		
	O	4,150,631	04/1979	Frey et al.	110	186		
	P	4,154,581	05/1979	Nack et al.	48	197R		
	Q	4,173,454	11/1979	Heins	44	522		
	R	4,196,057	04/1980	May et al.	205	775.5		
	S	4,208,386	06/1980	Arand et al.	423	235		
	T	4,213,944	09/1980	Azuhata et al.	423	235		
✓	U	4,294,178	10/1981	Borio et al.	110	347		
	V	4,318,718	03/1993	Carver et al.	110	347		
/EMJ/	W	4,375,949	03/1983	Salooja	431	7		
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/EMJ/	X	4,381,718	05/1993	Carver et al.	110	347		
	Y	4,469,050	09/1984	Korenberg	122	4D		
	Z	4,502,633	03/1985	Saxon	239	422		
	AA	4,504,211	03/1985	Beardmore	44	604		
	BB	4,506,608	03/1985	Strohmeyer, Jr.	110	245		
	CC	4,507,075	03/1985	Buss et al.	421	115		
	DD	4,507,269	03/1985	Dean et al.	423	235		
	EE	4,565,137	01/1986	Wright	110	264		
	FF	4,584,948	04/1986	Syred et al.	110	264		
/EMJ/	GG	4,624,840	11/1986	Dean et al.	423	235		
FOREIGN PATENT DOCUMENTS								
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/EMJ/	HH	4,627,965	12/1986	Hegemann et al.	423	242		
	II	4,672,900	06/1987	Santalla et al.	431	9		
	JJ	4,704,084	11/1987	Liu et al.	431	7		
	KK	4,751,065	06/1998	Bowers	423	235		
	LL	4,777,024	10/1988	Epperly et al.	423	235		
	MM	4,780,289	10/1988	Epperly et al.	223	235		
	NN	4,809,910	09/1998	Svendssen	110	235		
	OO	4,824,441	04/1989	Kindig	44	604		
	PP	4,873,930	10/1989	Egense et al.	110	345		
	QQ	4,962,711	10/1990	Yamauchi et al.	110	347		
	RR	4,978,514	12/1990	Hofmann et al.	423	235		
/EMJ/	SS	5,017,347	05/1991	Epperly et al.	423	235		
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/EMJ/	TT	5,032,154	07/1991	Wright	422	109		
↓	UU	5,048,432	09/1991	Hofmann et al.	110	345		
	VV	5,052,921	10/1991	Hemsath	423	121		
	WW	5,105,747	04/1992	Khinkis et al.	110	345		
	XX	5,139,754	08/1992	Luftglass et al.	423	235		
	YY	5,146,858	09/1992	Tokuda et al.	110	261		
	ZZ	5,240,404	08/1993	Hemsath et al.	431	9		
	AAA	5,261,602	11/1993	Brent et al.	239	132.3		
/EMJ/	BBB	5,286,467	02/1994	Sun et al.	423	239.1		
	CCC	5,310,334	05/1994	Spiros	431	5		
FOREIGN PATENT DOCUMENTS								
		DOCUMENT NO.	DATE	COUNTRY	CL.	SUBCL.	TRANSLATION	
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EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CL.	SUBCL.	FILING DATE IF APPROP.	
/EMJ/	DDD	5,336,081	08/1994	Saito et al.	431	190		
↓	EEE	5,345,883	09/1994	Panos	110	345		
	FFF	5,536,482	07/1996	Diep et al.	423	235		
	GGG	5,489,419	02/1996	Diep et al.	423	235		
	HHH	5,585,081	12/1996	Chu et al.	423	239.1		
	III	5,690,039	11/1997	Monroe et al.	110	264		
	III	5,707,596	01/1998	Lewandowski et al.	423	235		
	KKK	5,728,357	03/1998	von Harpe	423	239.1		
	LLL	5,853,684	12/1998	Fang et al.	423	244.1		
	MMM	5,854,173	12/1998	Chang et al.	502	417		
	NNN	6,019,068	02/2000	Tsuo et al.	122	4D		
/EMJ/	OOO	6,042,371	03/2000	Mitani et al.	431	215		
FOREIGN PATENT DOCUMENTS								
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/EMJ/	PPP	6,109,911	08/2000	Tamminen et al.	431	4		
↓	QQQ	6,190,628	02/2001	Carter	422	168		
	RRR	6,213,032	04/2001	Breen et al.	110	345		
	SSS	6,230,664	05/2001	Janka et al.	112	4D		
	TTT	6,280,695	08/2001	Lissianski et al.	423	239.1		
	UUU	6,357,367	03/2002	Breen et al.	110	345		
	VVV	6,398,039	06/2002	Xue et al.	210	504		
/EMJ/	WWW	6,485,289	11/2002	Kelly et al.	431	4		
/EMJ/	XXX	6,5427,828	03/2003	Flippo et al.	95	54		
FOREIGN PATENT DOCUMENTS								
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/EMJ/	YYY	6,532,905	03/2003	Belin et al.	122	4D	
	ZZZ	6,818,043	11/2004	Chang et al.	95	37	
	AAAA	6,953,494	10/2005	Nelson, Jr.	95	134	
	BBBB	7,335,014	02/2008	Higgins	431	4	
	CCCC	2003/011948	06/2003	Gaita et al.	96	108	
	DDDD	2004/0045437	03/2004	Chang et al.	95	134	
	EEEE	2004/1020872	06/2004	Fan et al.	423	239.1	
	FFFF	2004/0185399	09/2004	Moberg	431	4	
	GGGG	2004/0185402	09/2004	Moberg	431	9	
	HHHH	2004/0185401	09/2004	Moberg	431	9	
/EMJ/	III	2004/0253161	12/2004	Higgins	423	235	

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/EMJ/	JJJJ	2005/000901	Campbell et al.	210	660			
↓	KKKK	2005/0002841	Moberg	423	235			
	LLLL	2005/0013755	Higgins	423	235			
	MMMM	4,325,924	Arand et al	423	235			
	NNNN	4,842,834	Burton	423	235			
	OOOO	4,915,036	DeVita	110	215			
	PPPP	4,927,612	Bowers	423	235			
	QQQQ	4,962,711	Yamauchi et al.	110	347			
	RRRR	4,985,218	DeVita	423	235			
	SSSS	4,992,249	Bowers	423	235			
	TTTT	5,017,347	Epperly et al.	423	235			
↓	UUUU	5,057,293	Epperly et al.	423	235			
	VVVV	5,342,592	Peter-Hoblyn, et al.	423	235			
↓	www w	5,809,910	Svendssen	110	235			
	/EMJ/	xxxx	6,315,551	11/2001	Salzieder et al.	431	183	
FOREIGN PATENT DOCUMENTS								
		DOCUMENT NO.	DATE	COUNTRY	CL.	SUBCL	TRANSLATION	
							YES	NO
/EMJ/	YYYY	DE28 37 156 A1	03/1979	Germany (see US 5,146,858)				
/EMJ/	ZZZZ	WO 87/03507A1	06/1987	WIPO			X	
/EMJ/	AAAA A	WO05/079305 A3	02/2005	WIPO			X	
/EMJ/	BBBB B	EP 0287224 A2	10/1988	EPO			X	
/EMJ/	CCCC C	JP2003021322	01/2003	Japan (English abstract only)				
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							YES	NO
/EMJ/	DDDD D	EP0936405	08/1999	EPO			X	
/EMJ/	EEEE E	EP0326943 A2	01/1989	EPO			X	
/EMJ/	FFFF	GB 2 001 419 A	05/1978	UK			X	
/EMJ/	GGGG G	JP 53-112273	09/1978	Japan (see US 5,707,596)				

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